

CNIC Releases Update to Environmental Compliance Guide for Commanding Officers

Latest Version Reflects Changes to Legislative, Regulatory & Policy Landscape

COMMANDER, NAVY INSTALLATIONS Command (CNIC) updated the *Environmental Compliance Guide for Commanding Officers of Navy Installations* which provides an executive level overview of the major environmental programs, regulatory framework, and issues affecting the

Navy's environmental readiness.

This guide, intended for base commanding officers (CO), public works officers, or other non-environmental staff includes legislative, regulatory, and policy changes that have occurred since the last update in 1995. In addition to the numerous pictures and graphics, the guide provides additional sources of environmental information, Navy shore environmental impacts, and a compilation of plans and permits that COs should be aware of at their installation.

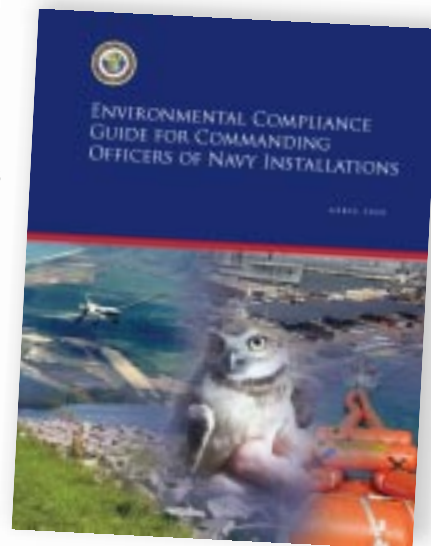
You may request a copy of the *Environmental Compliance Guide for Commanding Officers of Navy Installations* from Bill Page at william.p.page@navy.mil or download an electronic version from:

1. The Naval Facilities Engineering Command's Enterprise Document Library at https://portal.navfac.navy.mil/portal/page/portal/NAVFAC/NAVFAC_DOCS_PP or
2. The CNIC Gateway at <https://cnicgateway.cnic.navy.mil/HQ/N4/default.aspx> in the N4 Document Library. (CNIC Gateway access is limited.)

Copies will also be distributed via Shore Station Senior Leadership courses. ⚓

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Key Programs Covered in the *Environmental Compliance Guide for Commanding Officers of Navy Installations*

Overarching Programs

- Funding and Budgeting
- Training
- Environmental Sustainability
- Environmental Management Systems
- Overseas Environmental Management
- Other Accrued Environmental Liabilities

Specific Programs

- Air Quality
- Water Quality
- Hazardous Materials and Substances
- Solid Waste Management and Recycling
- Hazardous Waste Management
- Medical Waste Management
- Oil and Hazardous Substance Spill Preparedness and Response
- Emergency Planning and Community Right-to-Know Act
- Storage Tanks
- Pest Management
- Noise
- Asbestos, Lead-Based Paint, Radon, and Polychlorinated Biphenyls
- Cleanup
- Conservation
- Environmental Planning
- Range Sustainment

SERDP & ESTCP Announce Plans for Annual Symposium and FY 2012 Solicitations

Symposium Offers Comprehensive Technical Program & Training Opportunities

THE PARTNERS IN Environmental Technology Technical Symposium and Workshop, sponsored by the Strategic Environmental Research and Development Program (SERDP) and the Environmental Security Technology Certification Program (ESTCP), will be held 30 November through 2 December 2010, at the Marriott Wardman Park Hotel in Washington, D.C.

Plenary Session

The symposium and workshop will commence with presentations by the following three distinguished plenary session speakers who will discuss emerging environmental challenges facing the Department of Defense (DoD) and solutions for a sustainable future.

1. Rear Admiral David Titley, Oceanographer and Navigator of the U.S. Navy
2. Dr. Paul Anastas, Assistant Administrator for the U.S. Environmental Protection Agency's (EPA) Office of Research and Development
3. Dr. Robert Costanza, Director of the Center for Sustainable Processes and Practices at Portland State University

The symposium will be held
30 November through 2 December
in Washington, D.C.

Also, as part of the plenary session, SERDP and ESTCP principal investigators who have helped DoD achieve its mission while improving its environmental performance will be honored as the SERDP and ESTCP Project-of-the-Year Awards are announced.

Technical Program

A comprehensive technical program consisting of concurrent technical sessions and short courses covering a variety of scientific and technical topics will follow the plenary session.



Technical Sessions

Fourteen technical sessions will highlight research and innovative technologies that improve DoD's environmental performance, reduce costs, and enhance mission capabilities. Following are this year's topics.

1. Sea Level Rise: Assessing Vulnerabilities and Impacts
2. Opening the Arctic: Science Challenges to Understanding the Impacts of Climate Change
3. National Environmental Monitoring and Indicator Systems: Implications for DoD
4. Military Installations as Test Beds for Innovative Energy Efficiency Technologies
5. Minimizing Hexavalent Chromium Use in DoD Operations
6. Aviation and the Environment: Deicing and Noise
7. Lead-Free Electronics
8. Passive Sampling Approaches for Contaminated Sediment Management
9. Remediation and Management of Persistent Chlorinated Solvent Contamination
10. Monitoring and Mitigation of Vapor Intrusion from Contaminated Groundwater Sites
11. Evaluating the Environmental Impacts of Energetic Materials
12. Maintaining Sustainability of Forward Operating Bases
13. Classification Methods for Military Munitions Response
14. Military Munitions in the Underwater Environment

To view the lineup of speakers and their topics for each technical session, visit www.symposium.serdp-estcp.org.

Short Courses

Short courses will offer unique training opportunities on emerging technologies and methods in environmental

restoration and munitions management. Professional development hours will be offered for participation in short courses. Attendance for these short courses will be limited, and advanced registration for each short course is required. Following are this year's short course topics.

1. Advances in Classification Methods for Military Munitions Response
2. Principles and Practices of In Situ Chemical Oxidation
3. Measurement and Use of Mass Discharge and Mass Flux at Contaminated Sites

Other Symposium Highlights

Attendees will have numerous opportunities to tour more than 450 posters and exhibit booths and network with approximately 1,000 environmental professionals. Technical exchange networking receptions will be held both Tuesday and Wednesday evening.

For additional information, visit www.symposium.serdp-estcp.org, e-mail partners@hgl.com, or call 703-736-4548.

Solicitations to Be Released Beginning in October


SERDP will be seeking proposals in response to its Fiscal Year (FY) 2012 solicitation which is scheduled to be released on or about 28 October 2010. Projects will be selected through a competitive process that is open to both federal and non-federal submissions. Upon release of the solicitation, detailed instructions and the Statements of Need will be available at www.serdp-estcp.org under "Funding Opportunities."

The FY 2012 ESTCP solicitation will be released on or about 6 January 2011. This solicitation will request proposals related to each of the ESTCP program areas (Energy and Water, Environmental Restoration, Munitions Response, Resource Conservation and Climate Change, and Weapons Systems and Platforms) as well as other topic areas to be announced. Technology demonstrations are open to both the federal and non-federal sectors, and projects will be selected through a competitive process. Information about the solicitation

process is available at www.serdp-estcp.org under "Funding Opportunities."

SERDP is DoD's environmental science and technology program, executed in partnership with the Department of Energy and EPA. SERDP invests in basic and applied research and advanced development. ESTCP is DoD's environmental technology demonstration and validation program. The program's goal is to identify and demonstrate cost-effective technologies that address DoD's highest priority environmental requirements. Both programs address DoD environmental needs in the Energy and Water, Environmental Restoration, Munitions Response, Resource Conservation and Climate Change, and Weapons Systems and Platforms program areas.

For More Information

For additional information about the symposium, please visit www.symposium.serdp-estcp.org, send an e-mail to partners@hgl.com, or call the contact line at 703-736-4548. For information about the SERDP or ESTCP solicitations, please visit www.serdp-estcp.org. 

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Navy Tests Fuel Cell Vehicles for Performance & Reliability

Two San Diego Area Admirals Take Test Drives

TWO ELECTRIC VEHICLES powered by fuel cell technology were delivered to the Navy Broadway Complex in downtown San Diego on 1 June 2010 for testing by two area admirals.

Rear Admiral Mark Heinrich, Commander, Fleet and Industrial Supply Centers (COMFISCS) and Rear Admiral William French, Commander, Navy Region Southwest received the fuel cell vehicles, on loan from Marine Corps Base Camp Pendleton, for use for four days. During the four days, the admirals tested the vehicles for performance, durability and reliability.

The Department of Defense is the nation's largest single energy consumer, accounting for two percent of U.S. energy consumption.

Last October, during Energy Awareness Month, Secretary of the Navy (SECNAV), the Honorable Ray Mabus reminded the Navy and Marine Corps that energy reform and energy conservation are more than ideas to think

about only one month out of the year. He set five ambitious energy targets by 2020:

1. By 2020, half of the Navy's total energy consumption, ashore and afloat, will come from alternative sources.
2. By 2020, the Navy will make half of its installations net-zero energy consumers, using solar, wind, ocean and geothermal power generated on base.
3. By 2016, the Navy will sail the Great Green Fleet, a carrier strike group composed of nuclear ships, hybrid electric ships running biofuel and aircraft flying on biofuel.
4. By 2015, the Department of the Navy will cut in half the amount of petroleum it uses in its commercial vehicle fleet through phased adoption of hybrid, electric and flex fuel vehicles.
5. Effective immediately, the Navy and Marine Corps will change the way contracts are awarded. Industry will be held contractually accountable for meeting energy efficiency targets.

"I really looked forward to testing the fuel cell vehicle," said Heinrich. "Being a 'fuelie' [one of the many degrees



Rear Admiral Mark Heinrich and Rear Admiral William French get ready for a test ride in an electric fuel cell vehicle on 2 June 2010. The admirals participated in a real-world demonstration of the fuel cell vehicles, on loan from Marine Corps Base Camp Pendleton, to test their performance, durability and reliability.



Rear Admiral Mark Heinrich and YN1 Edward Rencher take delivery of an electric fuel cell vehicle on 1 June 2010.

he holds is in petroleum management] with global energy consumption growing, I'm wholly on board with the Navy to support renewable energy."

This demonstration also supports the Naval Supply Systems Command (NAVSUP) strategic plan for energy, which Rear Admiral Mike Lyden, Commander, NAVSUP signed on 18 May 2010.

"Our civilian and military workforce has the ability to be an excellent source of ideas for reducing NAVSUP's energy consumption, increasing energy efficiency and reducing our carbon footprint," said Admiral Lyden.

The fuel cell vehicles that were tested by the admirals are twice as efficient

as gasoline engines; they travel twice as far on the same amount of energy and water vapor is the only emission. A fuel cell vehicle is an electric vehicle (not a hybrid) and has better performance than most cars and is quick to fill up, about four to five minutes.

The fuel cell vehicles that were tested are twice as efficient as gasoline engines; they travel twice as far on the same amount of energy and water vapor is the only emission.

In the future, with proper fueling infrastructure, hydrogen fuel cells are a viable alternative to gasoline powered vehicles and coincides with target 4 of the SECNAV energy goals. ⚓

Photos by Kim Longstaff

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The Basics About COMFISCS

COMFISCS PROVIDES AN array of integrated global logistics and contracting services to Navy and Joint operational units across all warfare enterprises.

COMFISCS is responsible for facilitating best business practices and efficiencies across the seven FISCs in the following locations:

1. San Diego, CA
2. Norfolk, VA
3. Jacksonville, FL
4. Yokosuka, Japan
5. Pearl Harbor, Hawaii
6. Bremerton (Puget Sound), WA
7. Sigonella, Italy

COMFISCS is also responsible for optimizing the performance of base supply functions and standardizing levels of service across 11 regions and 77 Navy installations.

Comprised of more than 7,000 military and civilian logistics professionals, COMFISCS operates as a single cohesive team providing global logistics services from 135 locations worldwide.

A component of NAVSUP and headquartered in Mechanicsburg, PA, COMFISCS is part of a worldwide logistics network of more than 22,500 military and civilian personnel providing combat capability through logistics.

N45 Expands EPCRA Primer to Include Fuels Calculation Manual

CECOS Also Releases EPCRA Web Conference Schedule for the Fall

THE CHIEF OF Naval Operations Energy and Environmental Readiness Division (N45) has further expanded its Getting Started with the *Emergency Planning and Community Right-to-Know Act (EPCRA): A Primer for Navy Facilities* (May 2009) guidance with a new Calculation Manual on fuels.

'How to Consider Fuel Thresholds under EPCRA Section 313' provides detailed guidance on:

- Developing and maintaining a list of fuels and how they are used at the installation
- Obtaining the most correct Material Safety Data Sheets for the fuels
- Applying EPCRA Section 313 exemptions to the fuel uses
- Calculating thresholds
- Preparing and submitting EPCRA Section 313 reports for fuels

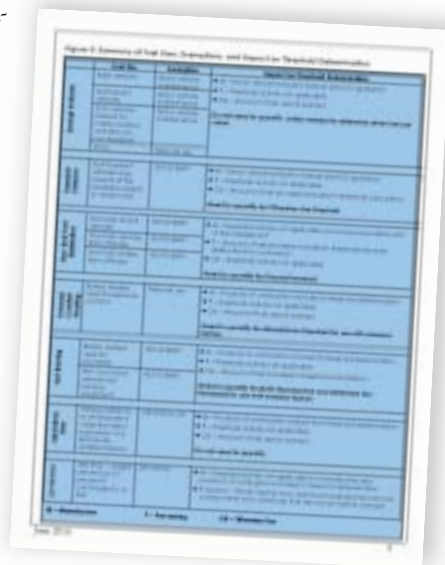
In addition, an Excel™ spreadsheet, 'Template—Fuels under EPCRA Section 313', included with the expanded guidance, provides a template for calculations and documentation for an EPCRA Section 313 fuels analysis. Sample values are included in the spreadsheet to assist the user.

You may request a copy of 'How to Consider Fuel Thresholds Under EPCRA Section 313' and the accompanying calculation spreadsheet by:

1. Contacting Anita Firestone at Anita_firestone@urscorp.com
2. Downloading an electronic version from the Toxic Release Inventory—Data Delivery System (TRI-DDS) web page at <https://dod-tridds.org/tri-web/> (login required) or
3. Downloading an electronic version from the Naval Civil Engineer Corps Officers School (CECOS) web site at <http://www.cecossweb.com/handouts/EPCRA>.

In addition, the document and spreadsheet files will be posted to the Naval Facilities Engineering Command's Enterprise Document Library at https://portal.navfac.navy.mil/portal/pageportal/NAVFAC/NAVFAC_DOCS_PP in the near future.

CECOS is again conducting Emergency Planning and Community Right-to-Know (EPCRA) no-cost, no-travel web conferences. The full EPCRA course will provide detailed instruction on all of the 2010 EPCRA reporting year requirements, including key topics such as covered chemicals, exemptions, sample calculations, sample reporting forms, and detailed workshops. This web conference is offered on scheduled dates starting in October 2010 through January 2011. The EPCRA Section 311/312 refresher courses will provide a review of the section-specific requirements. Course participants may submit facility-specific questions in advance of the training for discussion.



The full EPCRA course will provide detailed instruction on all of the 2010 EPCRA reporting year requirements.

Refresher courses for the EPCRA Section 312 reporting deadline of 1 March are offered in the January/February 2011 timeframe and refresher courses for the EPCRA Section 313 reporting deadline of 1 July are offered in the March/April 2011 timeframe. All upcoming EPCRA course offerings are listed on the CECOS web site at <https://www.netc.navy.mil/centers/csfe/cecoss/> or at <https://www.netc.navy.mil/centers/csfe/cecoss/CourseDetail.aspx?CID=23>.

The U.S. Environmental Protection Agency (EPA) is no longer accepting magnetic media for submissions and revisions. EPA will only accept Toxic Release Inventory—Made Easy (TRI-MEweb) or hard copy Form R submissions or revisions for reporting year 2009 and future years. EPA will not accept or process any submissions or revisions received via CD, floppy disk, or 3.5-inch disk.

In addition, EPA has developed two new tools designed to improve access to TRI data. My Right-to-Know (myRTK) is an application for mobile devices and is currently available in a beta version. This application allows users to:

1. Map nearby TRI facilities and large permit holders in the air, water, or hazardous waste programs
2. Compare TRI chemical releases among facilities, identify facility noncompliance
3. Obtain information on human health effects associated with TRI chemicals

Do You Have an Idea for a Calculation Manual?

- Is there something at your base that remains a challenge every reporting year?
- Do you have a scenario that you are not sure how to handle?
- Does your issue impact many Navy bases?

Send your ideas to the Navy EPCRA e-mail helpline at NavyEPCRA@urscorp.com.



A test cell operator at an Aircraft Intermediate Maintenance Department prepares to test a J-52 turbojet engine. Based on EPCRA Section 313, toxic chemicals used in and released from this activity must be included in threshold calculations.

Photographer's Mate 2nd Class Michael Watkins

The Toxics Release Inventory—Chemical Hazard Information Profiles (TRI-CHIP) is a searchable database system containing hazard information on TRI chemicals from multiple information sources. Both tools are available via the EPA's TRI home page at www.epa.gov/TRI or at the following sites: <http://www.epa.gov/tri/myrtk/index.htm> and <http://www.epa.gov/tri/tri-chip/index.html>.

Additional EPCRA resources include the Navy's EPCRA Helpline (NavyEPCRA@urscorp.com) which is staffed by CECOS Navy EPCRA training instructors. EPCRA questions may be emailed to the helpline at any time and a response or request for more information or discussion will be sent by the next business day. The Navy also maintains an EPCRA email list used by the Chief of Naval Operations to distribute EPCRA information such as announcements and reporting deadline reminders. To join, Navy personnel should send an email to NavyEPCRA@urscorp.com with 'Navy EPCRA e-mail list' in the subject line. 📧

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Joint Expeditionary Base Little Creek Fort Story Installs Oyster Reef

New Reef Brings Life to the Chesapeake Bay

PERSONNEL FROM THE environmental divisions at the Joint Expeditionary Base Little Creek Fort Story (JEBLCFS) and the Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic Environmental Core worked tirelessly over the past two years to install a man made oyster reef on the installation.

The project started as a way for JEBLCFS to contribute to the Navy's target of meeting the goals of the Chesapeake 2000 Agreement. As part of this agreement, parties strive to restore the native Eastern oyster, *Crassostrea virginica*, to the Chesapeake Bay. The Chesapeake Bay is the nation's largest estuary and provides shelter and spawning and foraging grounds to thousands of species. After overcoming several obstacles, the project finally came to light on 27 April 2010.

Approximately 4,000 bushels of oyster shells arrived at JEBLCFS. The empty shells were delivered to a training beach known as the "mudflats" where the installation's own Amphibious Construction Battalion 2 (ACB 2) was waiting with their equipment. The Seabees provided backhoes, dump trucks and causeway ferries, and spent the next two days providing vital training for themselves and a great service to the environmental department.

The shells were loaded onto dump trucks that were then driven onto the causeway ferries. The ferries carried the trucks full of shells to the location of the oyster reef—a restoration site for a former landfill. The shells were dropped into the water directly from the boat, while Sailors worked in the water and on the ships to help keep the oyster shells within the bounds of the reef. Several Sailors even volunteered to don their wetsuits, wade out into the cold water, and rake the shells into place. In the end, there were a total of 184 cubic yards of empty oyster



Trucks loaded with shells were driven directly onto the causeway ferries and then carried to the site of the oyster reef.



Oyster shells were simultaneously dumped directly from the trucks onto the causeway ferries to create the oyster reef.

shells laid onto the bottom of Little Creek Cove to provide habitat for future generations of oysters.

The site selected for the oyster reef was ideal because there was already some sporadic oyster growth in the area. Also, being adjacent to a restoration site, there is little to no risk of being disturbed by either training or construction activities.

The existing oysters were moved from the submerged bottom prior to construction of the oyster reef. Once all shells had been moved into place, natural resources staff members placed live oysters around and on top of the new oyster reef. This was a vital step in the reef construction, as oysters must attach themselves to hard surfaces. Adult oysters reproduce during the summer months when water temperatures are above 65 degrees Fahrenheit. The natural resources staff should be able to see resulting spat by late summer or early fall when these new oysters “set” to the empty shells, creating a thriving reef.

The natural resources staff should be able to see resulting spat by late summer or early fall when these new oysters “set” to the empty shells, creating a thriving reef.

It is important to note that the entire base was behind the oyster reef. Without the support of the installation commander, Captain Charles Stuppard, safety officials, port operations and especially ACB 2, who provided all of the equipment and manpower for the construction, the project might never have come to fruition.



The shells were dumped directly from the causeway ferries into the marked limits of the oyster reef.

This oyster reef is a significant feature for the installation for several reasons. Oysters are natural water filters, and the new reef will help contribute to cleaner water within Little Creek Cove. The oyster reef helps the Navy contribute to one of the goals of the Chesapeake 2000 Agreement to increase native oyster population within the Bay and its tributaries. Additionally, the reef was installed adjacent to a submerged aquatic vegetation bed, giving JEBLCFS two features that provide a unique and important marine environment in an area of the installation that is not open to development. No other naval installation in the Mid-Atlantic region has intentionally created these two marine habitats within their boundaries. By providing the oyster reef, the Navy is giving future generations of oysters a place to grow and flourish. This oyster reef will also provide valuable habitat and foraging grounds for many other estuarine species. ⚓

Photos by Jessica Barker

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CECOS Announces FY11 Environmental Training Classes

Providing a Full Spectrum of Environmental Training

THE NAVAL CIVIL Engineer Corps Officer School (CECOS) Environmental Division is pleased to announce the Fiscal Year 2011 (FY11) course schedule. CECOS provides world class environmental training to thousands of Department of Defense (DoD) military and civilian personnel in both classroom and web conference formats. In addition, CECOS also supports and promotes numerous Interservice Environmental Education Review Board (ISEERB) approved classes. "ISEERB approved" is an endorsement given to specific environmental education and training classes and have been reviewed by DoD subject matter experts and found to have a common content suitable for use by more than one service. The purpose of the ISEERB is to eliminate duplication in course

development by the services and to maximize the distribution of quality environmental training.

CECOS provides a wide range of environmental training courses including:

- Environmental Overview, Law, Management and Planning
- Pollution Prevention and Sustainability
- Ashore Compliance
- Restoration
- Conservation
- Hazardous Waste Operations and Management
- Supplemental and Internet/Computer Based Training

To view the most current and complete listing of all CECOS courses and to register for a course, visit the CECOS web site at <https://www.netc.navy.mil/centers/csfe/cecos>.

FIRST QUARTER FY11 CECOS TRAINING CLASSES

Course Name	Start Date	End Date	Location
Advancing an Effective EMS	4-Oct-10	7-Oct-10	Webinar—Europe (4 hours/day)
Advancing an Effective EMS	14-Dec-10	16-Dec-10	Webinar—CONUS (5 hours/day)
Basic Environmental Law	30-Nov-10	2-Dec-10	Port Hueneme, CA
Buying Green	2-Nov-10	3-Nov-10	Keyport, WA
Buying Green	8-Dec-10	9-Dec-10	Hawaii
Environmental Geographic Information Systems	25-Oct-10	28-Oct-10	Norfolk, VA
Environmental Background Analysis	19-Oct-10	20-Oct-10	Silverdale, WA
Environmental Quality Sampling	25-Oct-10	29-Oct-10	Indian Head, MD
Emergency Planning and Community Right-to-Know Act (EPCRA)/Toxics Release Inventory (TRI) (Web Conference)	25-Oct-10	28-Oct-10	Webinar—CONUS (6 hours/day)
EPCRA/TRI (Web Conference)	29-Nov-10	2-Dec-10	Webinar—CONUS (6 hours/day)
Hazardous Waste Operations and Emergency Response (Hazwoper) Refresher	1-Oct-10	30-Sep-11	Accessible 24/7 Online
Introduction to Hazardous Waste (HW) Generation & Handling	1-Nov-10	3-Nov-10	El Centro, CA
Introduction to HW Generation & Handling	15-Nov-10	17-Nov-10	Fallon, NV
Introduction to HW Generation & Handling	30-Nov-10	2-Dec-10	Barstow, CA
Introduction to HW Generation & Handling	6-Dec-10	8-Dec-10	San Diego, CA
Listbuilder—EMS			Recorded DCO Training (30 minutes)
Navy Environmental Restoration Program	7-Dec-10	9-Dec-10	Honolulu, HI
Pollution Prevention (Web Conference)	19-Oct-10	20-Oct-10	Webinar—CONUS (4 hours/day)
Resource Conservation and Recovery Act (RCRA) HW Review	4-Nov-10	4-Nov-10	El Centro, CA
RCRA HW Review	18-Nov-10	18-Nov-10	Fallon, NV
RCRA HW Review	3-Dec-10	3-Dec-10	Barstow, CA
RCRA HW Review	9-Dec-10	9-Dec-10	San Diego, CA
Solid Waste & Recycling Awareness	10-Nov-10	10-Nov-10	Webinar—CONUS (4 hours)
Sustainability in the Navy: Leadership in Energy and Environmental Design	21-Oct-10	21-Oct-10	Webinar—CONUS (4 hours)

Please note that web conference classes listed for CONUS have start times designed to accommodate multiple North American time zones, but are open to anyone in the world. It is very common to have students from the Far East join in on a class with a 0900 Pacific start time. Specific start and end times will be provided via email to each of the registrants as these times will vary. If your schedule permits, please feel free to register for and attend these training opportunities.

CECOS uses Defense Connect Online (DCO) as its web conferencing platform. In addition to the live DCO offerings, the goal for FY11 is to provide recorded versions of various classes that can be accessed from most anywhere 24/7. The only requirement is that the user establishes an account with DCO. If you are unfamiliar with this training platform and/or need an account, please visit <https://www.dco.dod.mil>.

Those individuals engaged in Environmental Management System (EMS) functions, whether operationally or as an internal or external auditor, should ensure that they participate in one the Advancing an Effective EMS Web classes. This new class will not only help you take your existing programs to the next level, but also is a pre-requisite for the Integrated EMS/Compliance course which will begin in the second quarter of FY11.

Should you have any questions regarding CECOS courses or content, you may

contact the course directors via a link on the individual course page on the CECOS web site. [↗](#)

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N45 Unveils NEW LOGO

Updated Design Reflects Dual Focus on Energy & Environmental Priorities

The Chief of Naval Operations Energy and Environmental Readiness Division (N45) has released a new logo that integrates elements of all parts of its mission—energy, environmental stewardship, and warfighter readiness. The Latin phrase that runs along the outer rim of the design—*tridens ab integro nascitur*—means “renewable seapower” and will be the Division’s new motto. This new seal blends N45’s former focus on environmental readiness with its new portfolio of energy security—all underpinned by the Division’s continued commitment to readiness.

